

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference NC04001PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/JP2004/016708	International filing date (day/month/year) 04/11/2004	(Earliest) Priority Date (day/month/year) 04/11/2003
Applicant NTT COMMUNICATIONS CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/06 H04L29/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<u>US 6 158 011 A (CHEN ET AL)</u> <u>5 December 2000 (2000-12-05)</u>	1-3, 6-31, 33-43 4,5,32
Y	abstract column 1, line 10 - line 15 column 1, line 31 - column 2, line 48 column 4, line 3 - column 6, line 50	
X	STAINOV R: "DATENSICHERHEIT IM INTERNET: PRINZIPIEN, MOEGlichkeiten UND GRENZEN" NTZ (NACHRICHTENTECHNISCHE ZEITSCHRIFT), VDE VERLAG GMBH, BERLIN, DE, vol. 49, no. 8, January 1996 (1996-01), pages 32-34,36, XP000623476 ISSN: 0027-707X page 40	1-3, 6-31, 33-43

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

10 May 2005

Date of mailing of the international search report

23/05/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<u>US 2002/174335 A1 (ZHANG JUNBIAO ET AL)</u> <u>21 November 2002 (2002-11-21)</u> abstract paragraph '0019! paragraph '0042! - paragraph '0043! paragraph '0045! paragraph '0064! -----	1-3, 6-31, 33-43
Y	WO 01/58113 A (TELEFONAKTIEBOLAGET LM ERICSSON) 9 August 2001 (2001-08-09) abstract page 2, line 17 - line 27 page 3, line 6 - page 4, line 15 -----	4,5,32
A	HOOGENBOOM M ET AL: "Security For Remote Access And Mobile Applications" COMPUTERS & SECURITY, ELSEVIER SCIENCE PUBLISHERS. AMSTERDAM, NL, vol. 19, no. 2, February 2000 (2000-02), pages 149-163, XP004204675 ISSN: 0167-4048 page 150 - page 154 page 161 - page 162 -----	1-43

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6158011	A	05-12-2000	US 6061796 A AU 8915298 A WO 9911019 A1	09-05-2000 16-03-1999 04-03-1999
US 2002174335	A1	21-11-2002	NONE	
WO 0158113	A	09-08-2001	AU 3065101 A WO 0158113 A1	14-08-2001 09-08-2001